SRS-D511

SERVICE MANUAL

Ver. 1.1 2005. 07

US Model
Canadian Model
AEP Model
UK Model
E Model

Subwoofer

Control Box

Satellite Speaker

SPECIFICATIONS

Speaker section

Satellite speaker

Satellite system	Full range, magnetically shielded
Speaker units	5.7 cm, cone type
Enclosure type	Closed type
Impedance	4 Ω
Cord length	2 m (for front L and front R speakers) 3 m (for rear L, rear R and center speakers)

Subwoofer

Speaker system	Woofer
Speaker units	12 cm, cone type
Enclosure type	Bass reflex
Impedance	8 Ω

Amplifier section

Rated output	5W (10% T.H.D., 1 KHz, 4Ω) (Satellite speaker) 25 W (10% T.H.D., 100 KHz, 8 Ω) (Subwoofer)
Input	Stereo mini jack x 3 (INPUT 1 for 5.1 channel signal input) Stereo mini jack x 1 (INPUT 2 for 2 channel signal input)
Input impedance	4.7 kΩ (at 1 kHz)
Output	Stereo mni jack x 1 (PHONES)

General

Dimensions (w/h/d)	Approx. 50 x 178 x 99 mm (2 x 7 1/8 x 4 in.) (Controller) Approx. 98 x 124 x 84 mm (3 7/8 x 5 x 3 3/8 in.) (Satellite speaker, on a desk) Approx. 98 x 98 x 83 mm (3 7/8 x 3 7/8 x 3 3/8 in.) (Satellite speaker, attached to a wall) Approx. 163 x 267 x 301 mm (6 1/2 x 10 5/8 x 11 7/8 in.) (Subwoofer)
Mass	Approx. 199 g (7 oz.) (Controller) Approx. 294 g (10 oz.) (Satellite speaker) Approx. 4.8 kg (10 lb. 9 oz.) (Subwoofer)
Cord length	2 m (Controller to Subwoofer) 2 m (Power cord)
Power consumptions	33 W

Power requirements

Where purchased	Operating voltage
U.S.A./Canada	120 V AC, 60Hz
European countries	220 - 230 V AC, 50Hz
Other countries	• 120 V AC, 60Hz • 220 - 230 V AC, 50Hz

Supplied accessories

Connecting Cable (for 5.1 channel signal input)

Design and specifications are subject to change without notice.

ACTIVE SPEAKER SYSTEM

9-879-507-02
2005G02-1
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Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

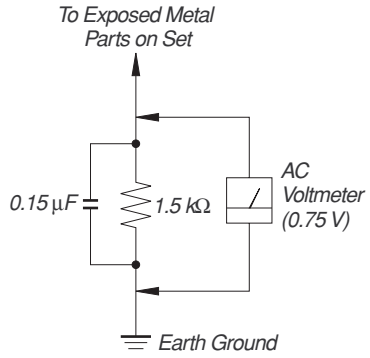

Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

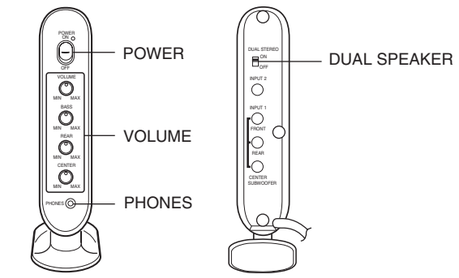
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS



Controller (Front) Controller (Rear)

VOLUME: Controls total volume level.
BASS: Adjusts bass level (Subwoofer).
REAR: Adjusts rear surround sound (Rear Speaker).
CENTER: Adjusts center speaker level as necessary to make balanced sound.
PHONES: Connect the headphones for personal listening.

DUAL STEREO: Switches a 4 channel or 2 channel source to 5.1 channel.

SECTION 2
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

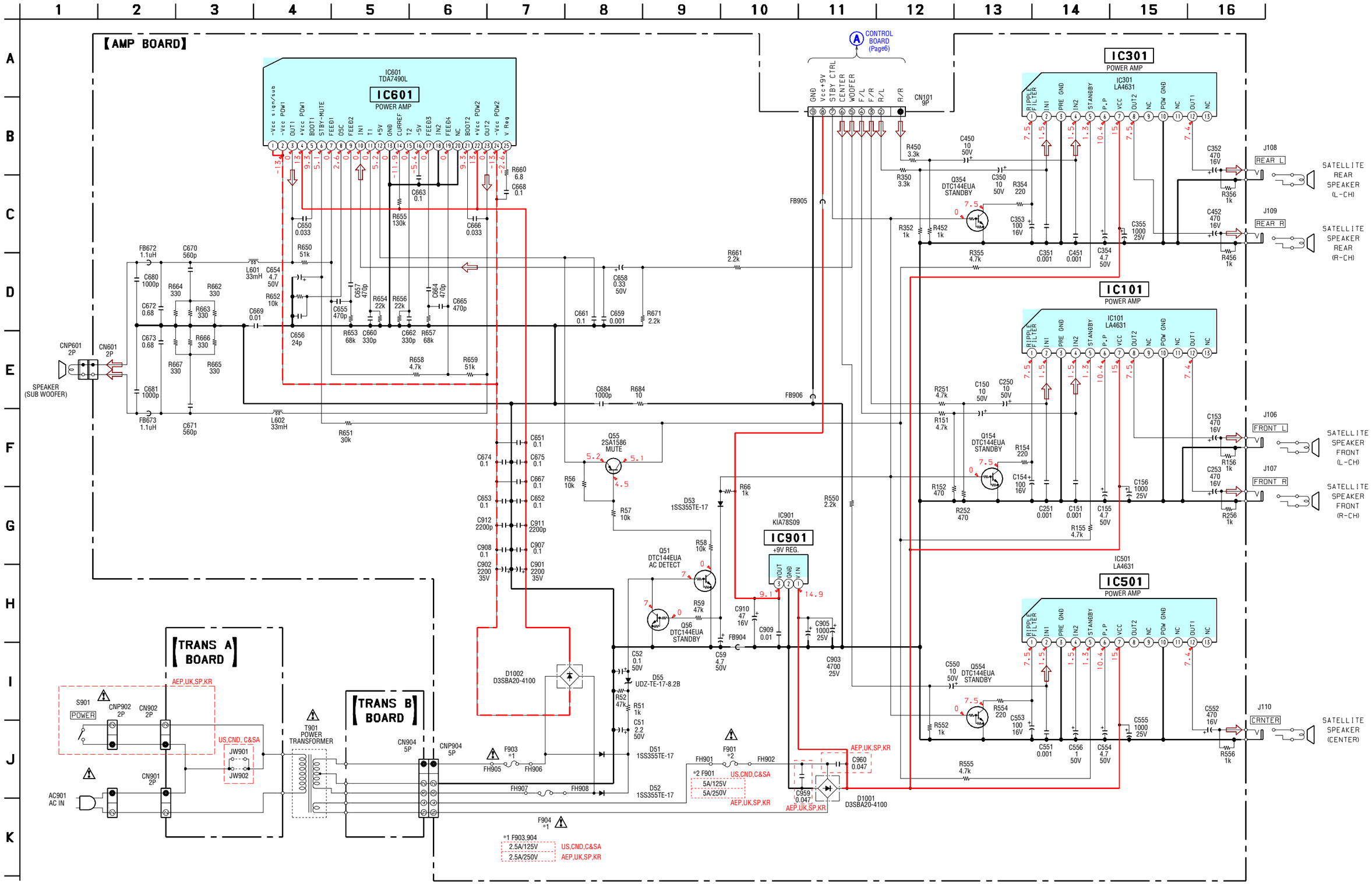
For schematic diagrams.
Note:
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

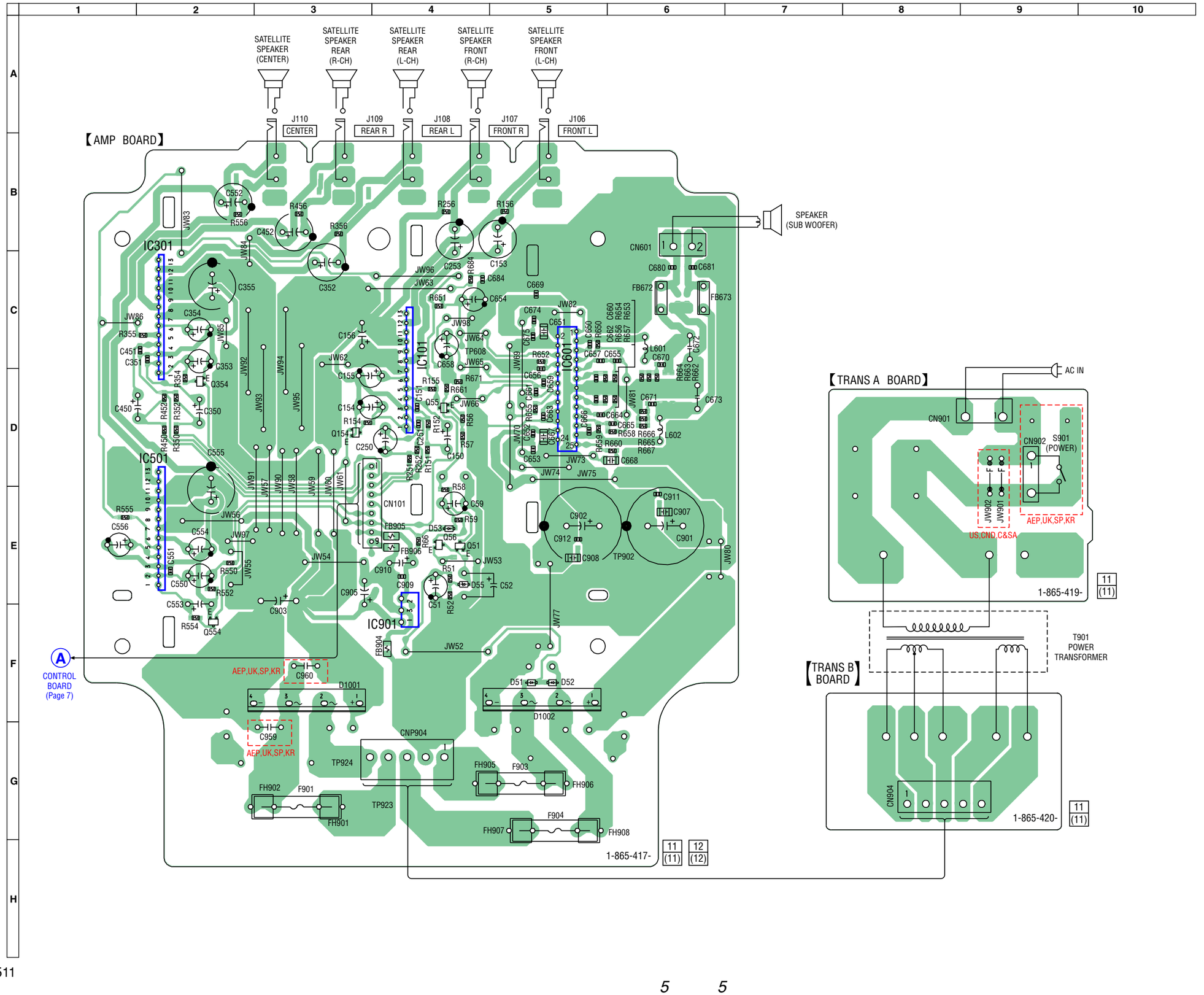
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages are dc with respect to ground under no-signal conditions.
- no mark : Power on
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  CND : Canadian model
  SP : Singapore model
  KR : Korean model
  C&SA : Central & South America

For printed wiring boards.
Note:
- ○——— : parts extracted from the component side.
- ▭ : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian model
  SP : Singapore model
  KR : Korean model
  C&SA : Central & South America

2-1. SCHEMATIC DIAGRAM – AMP SECTION –



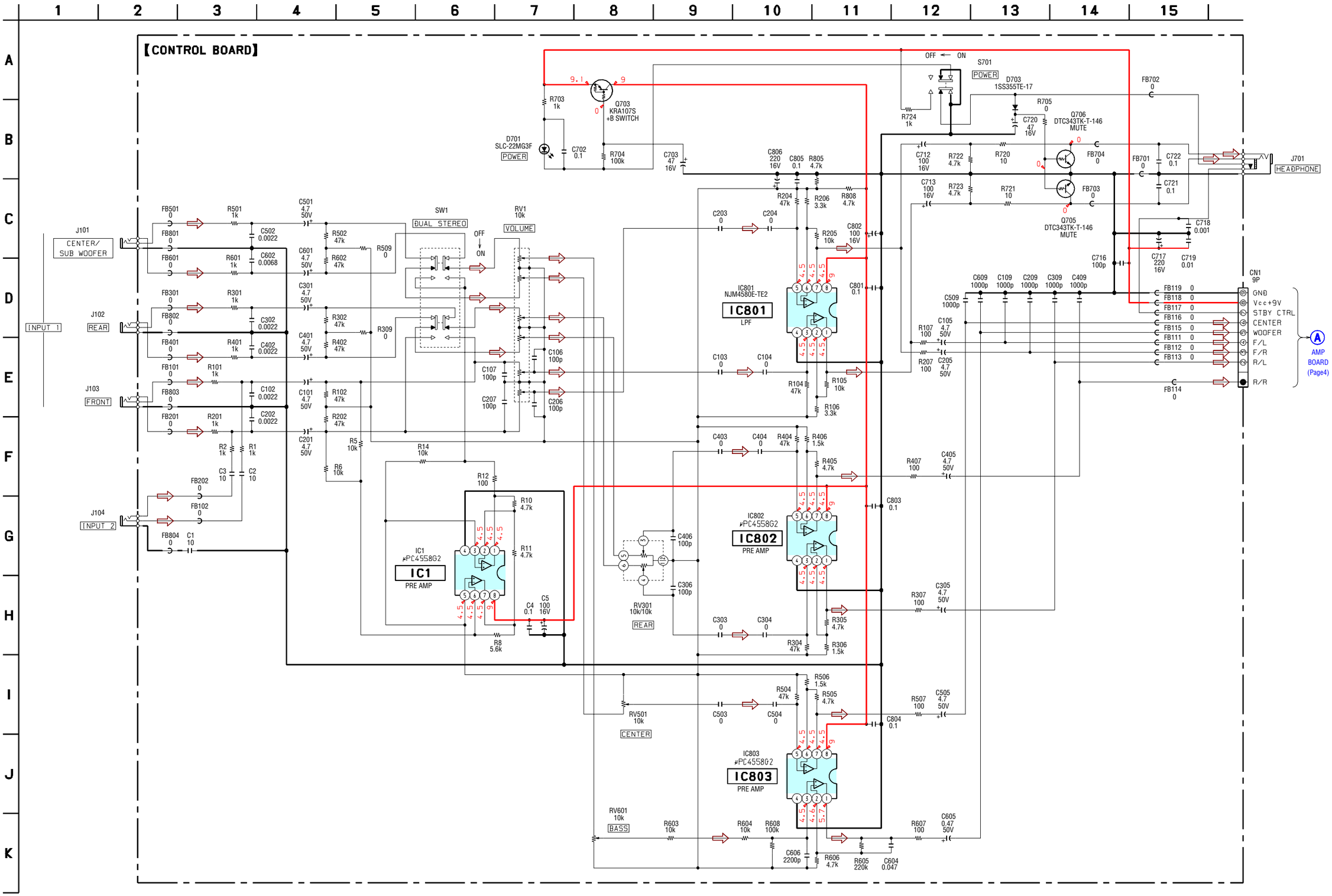
2-2. PRINTED WIRING BOARD – AMP SECTION –



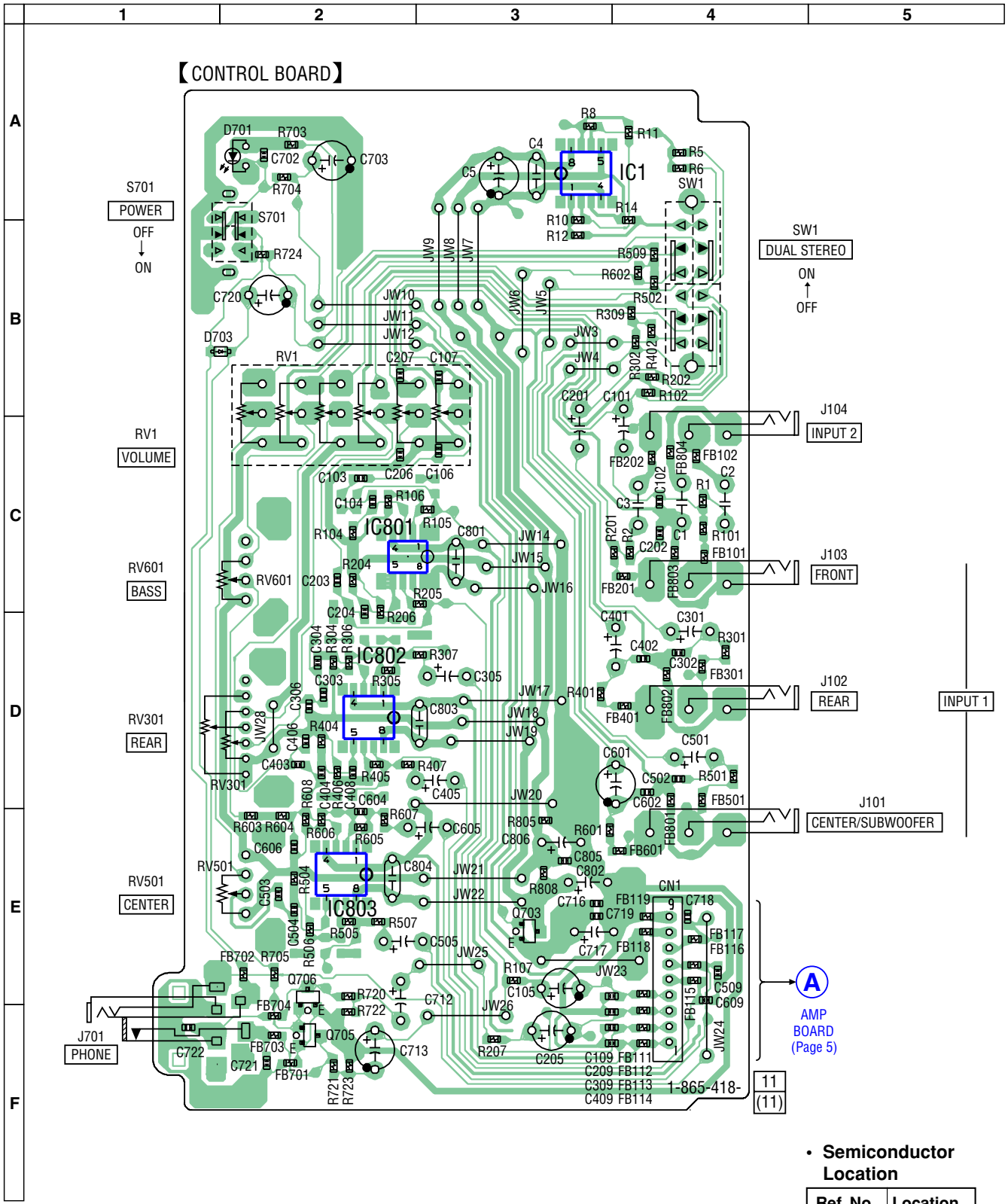
- **Semiconductor Location**

Ref. No.	Location
D51	F-5
D52	F-5
D53	E-4
D55	E-4
D1001	F-3
D1002	F-5
IC101	C-4
IC301	C-2
IC501	E-2
IC601	D-5
IC901	F-4
Q51	E-4
Q55	D-4
Q56	E-4
Q154	D-3
Q354	D-2
Q554	F-2

2-3. SCHEMATIC DIAGRAM – CONTROL SECTION –



2-4. PRINTED WIRING BOARD – CONTROL SECTION –



- **Semiconductor Location**

Ref. No.	Location
D701	A-2
D703	B-2
IC1	A-3
IC801	C-2
IC802	D-2
IC803	E-2
Q703	E-3
Q705	F-2
Q706	E-2

SECTION 3
EXPLODED VIEWS

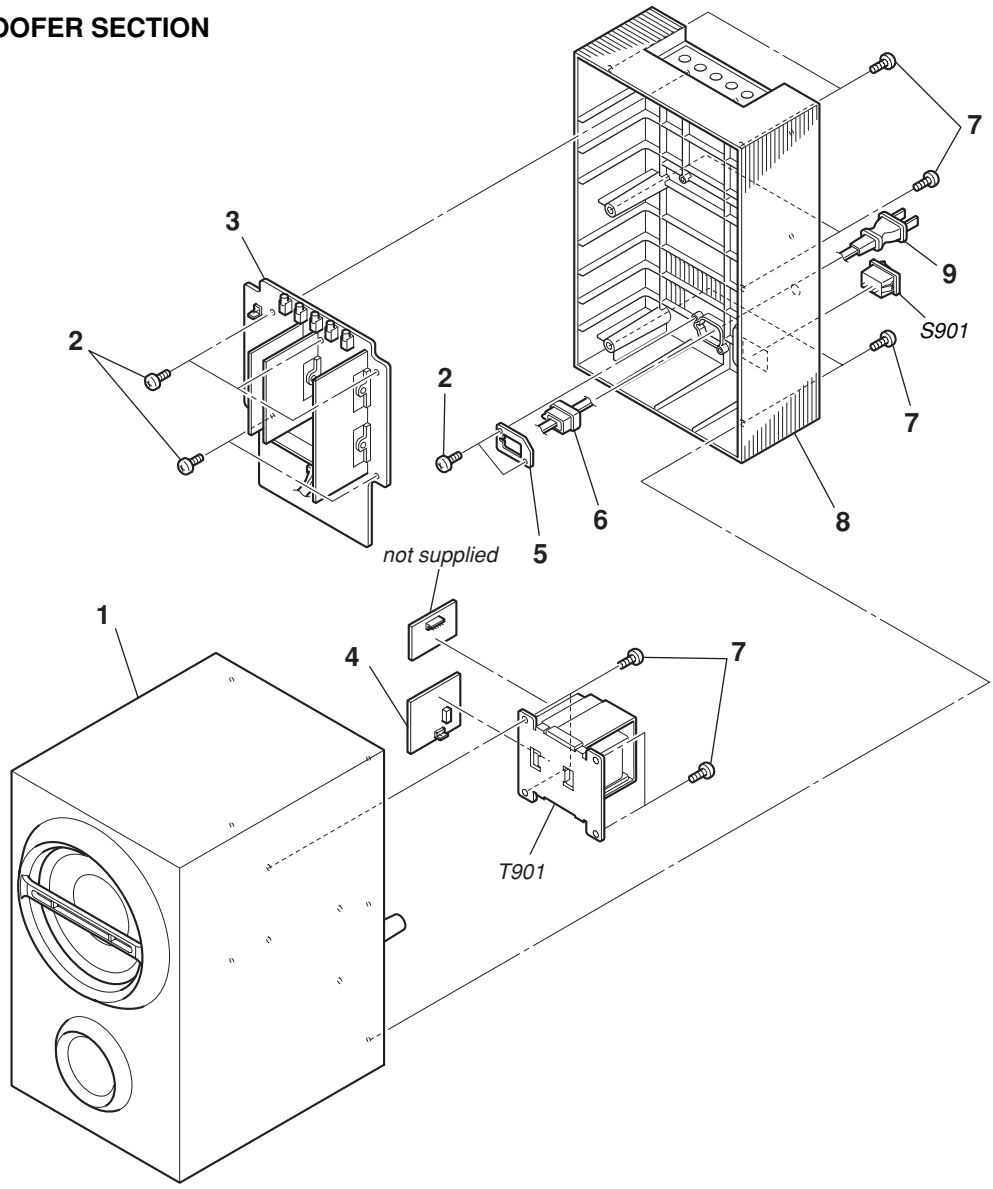
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  SP : Singapore model
  KR : Korean model
  C&SA : Central & South America

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

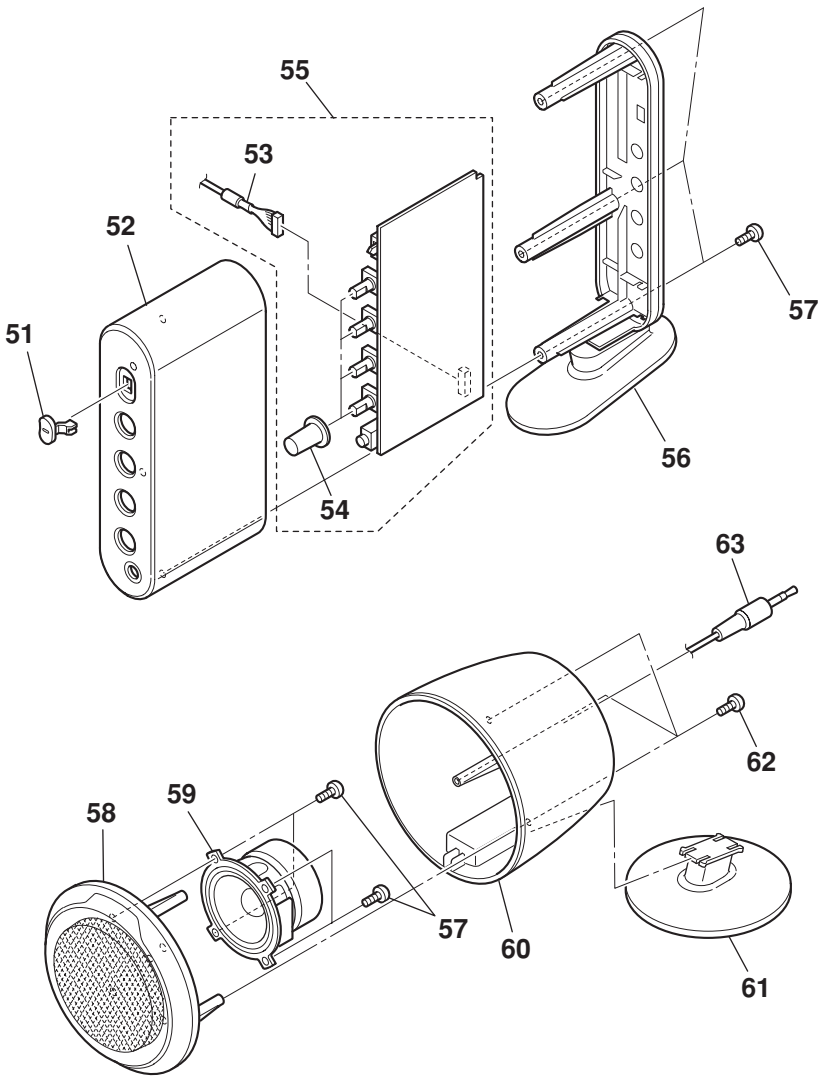
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. SUBWOOFER SECTION



Ref. No.	Part No.	Description	Remarks
1	X-2055-164-1	CABINET, MAIN SUB ASSY (US, CND, C&SA)	
1	X-2055-397-1	CABINET, MAIN SUB ASSY (AEP, UK, SP, KR)	
2	3-254-144-11	SCREW (B3), (+) BV TAPPING	
3	A-1092-397-A	AMP BOARD, COMPLETE (US, CND, C&SA)	
3	A-1108-815-A	AMP BOARD, COMPLETE (AEP, UK, SP, KR)	
4	A-1104-248-A	TRANS A BOARD, COMPLETE (US, CND, C&SA)	
4	A-1113-981-A	TRANS A BOARD, COMPLETE (AEP, UK, SP, KR)	
5	2-102-924-01	BRACKET, CORD	
* 6	3-703-244-00	BUSHING (2104), CORD	
7	3-252-829-01	SCREW (B3), (+) BV TAPPING	
8	2-345-700-11	CABINET (W), REAR (US, CND)	
8	2-345-700-31	CABINET (W), REAR (AEP, UK)	
8	2-345-700-51	CABINET (W), REAR (SP, KR)	
8	2-345-700-71	CABINET (W), REAR (C&SA)	
⚠9	1-769-079-23	CORD, POWER (KR)	
⚠9	1-777-071-23	CORD, POWER (AEP, UK, SP)	
⚠9	1-783-820-11	CORD, POWER (US, CND, C&SA)	
⚠S901	1-762-876-11	SWITCH, AC POWER (AEP, UK, SP, KR)	
⚠T901	1-443-656-11	TRANSFORMER, POWER (US, CND, C&SA)	
⚠T901	1-443-697-11	TRANSFORMER, POWER (AEP, UK, SP, KR)	

3-2. CONTROL BOX, SATELLITE SPEAKER SECTION



Ref. No.	Part No.	Description	Remarks
51	2-345-704-01	KNOB, POWER	
52	2-541-579-01	CABINET (C), FRONT (US, CND, C&SA)	
52	2-541-579-11	CABINET (C), FRONT (AEP, UK, SP, KR)	
53	1-830-410-11	CABLE 9P	
54	2-345-705-01	KNOB, VOLUME	
55	A-1103-108-A	CONTROL BOARD, COMPLETE (US, CND, C&SA)	
55	A-1134-415-A	CONTROL BOARD, COMPLETE (AEP, UK, SP, KR)	
56	2-541-580-01	CABINET (C), REAR	
57	3-252-829-01	SCREW (B3), (+) BV TAPPING	
58	X-2055-167-1	CABINET (S) FRONT SUB ASSY	
59	1-826-096-11	SPEAKER (57mm)	
60	2-345-693-01	CABINET (S), REAR	
61	2-345-695-01	STAND	
62	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
63	1-830-408-11	CABLE, MONO (for FRONT L/R-CH)	
63	1-830-408-21	CABLE, MONO (for REAR L/R and CENTER-CH)	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  CND : Canadian model KR : Korean model
  SP : Singapore model C&SA : Central & South America

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remarks
	A-1092-397-A	AMP BOARD, COMPLETE (US, CND, C&SA)			
	A-1108-815-A	AMP BOARD, COMPLETE (AEP, UK, SP, KR)			
		**********			
	3-252-833-01	SCREW (M3), (+) P			
		< CAPACITOR >			
C51	1-126-961-11	ELECT	2.2uF	20%	50V
C52	1-126-956-91	ELECT	0.1uF	20%	50V
C59	1-126-963-11	ELECT	4.7uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C153	1-126-935-11	ELECT	470uF	20%	16V
C154	1-126-933-11	ELECT	100uF	20%	16V
C155	1-126-963-11	ELECT	4.7uF	20%	50V
C156	1-126-942-61	ELECT	1000uF	20%	25V
C250	1-126-964-11	ELECT	10uF	20%	50V
C251	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C253	1-126-935-11	ELECT	470uF	20%	16V
C350	1-126-964-11	ELECT	10uF	20%	50V
C351	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C352	1-126-935-11	ELECT	470uF	20%	16V
C353	1-126-933-11	ELECT	100uF	20%	16V
C354	1-126-963-11	ELECT	4.7uF	20%	50V
C355	1-126-942-61	ELECT	1000uF	20%	25V
C450	1-126-964-11	ELECT	10uF	20%	50V
C451	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-126-935-11	ELECT	470uF	20%	16V
C550	1-126-964-11	ELECT	10uF	20%	50V
C551	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C552	1-126-935-11	ELECT	470uF	20%	16V
C553	1-126-933-11	ELECT	100uF	20%	16V
C554	1-126-963-11	ELECT	4.7uF	20%	50V
C555	1-126-942-61	ELECT	1000uF	20%	25V
C556	1-126-960-11	ELECT	1uF	20%	50V
C650	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C651	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C652	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C653	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C654	1-126-963-11	ELECT	4.7uF	20%	50V
C655	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C656	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C657	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C658	1-124-252-00	ELECT	0.33uF	20%	50V
C659	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C660	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C661	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C662	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C663	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C664	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C665	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C666	1-100-436-91	CERAMIC CHIP	0.033uF	10%	25V
C667	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C668	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C669	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C670	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C671	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C672	1-131-702-11	FILM	0.68uF	5%	50V
C673	1-131-702-11	FILM	0.68uF	5%	50V
C674	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C675	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C680	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C681	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C684	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-126-953-11	ELECT	2200uF	20%	35V
C902	1-126-953-11	ELECT	2200uF	20%	35V
C903	1-128-548-11	ELECT	4700uF	20%	25V
C905	1-126-942-61	ELECT	1000uF	20%	25V
C907	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C908	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C909	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C910	1-126-947-11	ELECT	47uF	20%	35V
C911	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C912	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C959	1-130-491-00	MYLAR	0.047uF	5%	50V (AEP, UK, SP, KR)
C960	1-130-491-00	MYLAR	0.047uF	5%	50V (AEP, UK, SP, KR)
		< CONNECTOR >			
* CN101	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P			
CN601	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< DIODE >			
D51	8-719-988-61	DIODE 1SS355TE-17			
D52	8-719-988-61	DIODE 1SS355TE-17			
D53	8-719-988-61	DIODE 1SS355TE-17			
D55	8-719-056-85	DIODE UDZ-TE-17-8.2B			
D1001	6-500-385-01	DIODE D3SBA20-4100			

Ref. No.	Part No.	Description	Remarks
D1002	6-500-385-01	DIODE D3SBA20-4100	
		< FUSE >	
⚠F901	1-532-505-33	FUSE (T5AL/250V) (AEP, UK, SP, KR)	
⚠F901	1-533-420-12	FUSE, GLASS CYLINDRICAL(DIA.5) (T5AL/125V) (US, CND, C&SA)	
⚠F903	1-532-464-33	FUSE (T2.5AL/250V) (AEP, UK, SP, KR)	
⚠F903	1-533-418-12	FUSE (T2.5AL/125V) (US, CND, C&SA)	
⚠F904	1-532-464-33	FUSE (T2.5AL/250V) (AEP, UK, SP, KR)	
⚠F904	1-533-418-12	FUSE (T2.5AL/125V) (US, CND, C&SA)	
		< FERRITE BEAD >	
FB672	1-410-397-21	FERRITE 1.1uH	
FB673	1-410-397-21	FERRITE 1.1uH	
FB904	1-414-232-22	INDUCTOR, FERRITE BEAD	
FB905	1-414-232-22	INDUCTOR, FERRITE BEAD	
FB906	1-414-232-22	INDUCTOR, FERRITE BEAD	
		< FUSE HOLDER >	
FH901	1-533-313-11	FUSE HOLDER	
FH902	1-533-313-11	FUSE HOLDER	
FH905	1-533-313-11	FUSE HOLDER	
FH906	1-533-313-11	FUSE HOLDER	
FH907	1-533-313-11	FUSE HOLDER	
FH908	1-533-313-11	FUSE HOLDER	
		< IC >	
IC101	6-706-641-01	IC LA4631-E	
IC301	6-706-641-01	IC LA4631-E	
IC501	6-706-641-01	IC LA4631-E	
IC601	6-704-237-01	IC TDA7490L	
IC901	6-700-776-01	IC KIA78S09P-TP	
		< JACK >	
J106	1-566-822-61	JACK (FRONT L)	
J107	1-566-822-61	JACK (FRONT R)	
J108	1-566-822-61	JACK (REAR L)	
J109	1-566-822-61	JACK (REAR R)	
J110	1-566-822-61	JACK (CENTER)	
		< COIL >	
L601	1-400-914-11	FIXED INDUCTOR 33mH	
L602	1-400-914-11	FIXED INDUCTOR 33mH	
		< TRANSISTOR >	
Q51	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q55	8-729-230-60	TRANSISTOR 2SA1586-YG	
Q56	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q154	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q354	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q554	8-729-029-14	TRANSISTOR DTC144EUA-T106	
		< RESISTOR >	
R51	1-216-821-11	METAL CHIP 1K 5%	1/10W
R52	1-216-841-11	METAL CHIP 47K 5%	1/10W
R56	1-216-833-11	METAL CHIP 10K 5%	1/10W
R57	1-216-833-11	METAL CHIP 10K 5%	1/10W
R58	1-216-833-11	METAL CHIP 10K 5%	1/10W

Ref. No.	Part No.	Description	Remarks
R59	1-216-841-11	METAL CHIP 47K 5%	1/10W
R66	1-216-821-11	METAL CHIP 1K 5%	1/10W
R151	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R152	1-216-817-11	METAL CHIP 470 5%	1/10W
R154	1-216-813-11	METAL CHIP 220 5%	1/10W
R155	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R156	1-216-821-11	METAL CHIP 1K 5%	1/10W
R251	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R252	1-216-817-11	METAL CHIP 470 5%	1/10W
R256	1-216-821-11	METAL CHIP 1K 5%	1/10W
R350	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R352	1-216-821-11	METAL CHIP 1K 5%	1/10W
R354	1-216-813-11	METAL CHIP 220 5%	1/10W
R355	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R356	1-216-821-11	METAL CHIP 1K 5%	1/10W
R450	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R452	1-216-821-11	METAL CHIP 1K 5%	1/10W
R456	1-216-821-11	METAL CHIP 1K 5%	1/10W
R550	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R552	1-216-821-11	METAL CHIP 1K 5%	1/10W
R554	1-216-813-11	METAL CHIP 220 5%	1/10W
R555	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R556	1-216-821-11	METAL CHIP 1K 5%	1/10W
R650	1-218-331-11	METAL CHIP 51K 5%	1/10W
R651	1-218-882-11	METAL CHIP 30K 0.5%	1/10W
R652	1-216-833-11	METAL CHIP 10K 5%	1/10W
R653	1-216-843-11	METAL CHIP 68K 5%	1/10W
R654	1-216-837-11	METAL CHIP 22K 5%	1/10W
R655	1-218-743-11	METAL CHIP 130K 0.5%	1/10W
R656	1-216-837-11	METAL CHIP 22K 5%	1/10W
R657	1-216-843-11	METAL CHIP 68K 5%	1/10W
R658	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W
R659	1-218-331-11	METAL CHIP 51K 5%	1/10W
R660	1-216-795-11	METAL CHIP 6.8 5%	1/10W
R661	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R662	1-216-815-11	METAL CHIP 330 5%	1/10W
R663	1-216-815-11	METAL CHIP 330 5%	1/10W
R664	1-216-815-11	METAL CHIP 330 5%	1/10W
R665	1-216-815-11	METAL CHIP 330 5%	1/10W
R666	1-216-815-11	METAL CHIP 330 5%	1/10W
R667	1-216-815-11	METAL CHIP 330 5%	1/10W
R671	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R684	1-216-797-11	METAL CHIP 10 5%	1/10W
**********			
	A-1103-108-A	CONTROL BOARD, COMPLETE (US, CND, C&SA)	
	A-1134-415-A	CONTROL BOARD, COMPLETE (AEP, UK, SP, KR)	
		**********	
	1-830-410-11	CABLE 9P	
	2-345-705-01	KNOB, VOLUME	
		< CAPACITOR >	
C1	1-107-714-11	ELECT 10uF 20%	50V
C2	1-107-714-11	ELECT 10uF 20%	50V
C3	1-107-714-11	ELECT 10uF 20%	50V
C4	1-127-888-51	CERAMIC 0.1uF 10%	50V
C5	1-126-933-11	ELECT 100uF 20%	16V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
C101	1-126-963-11	ELECT	4.7uF	20%	50V
C102	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C103	1-216-864-11	SHORT CHIP	0		
C104	1-216-864-11	SHORT CHIP	0		
C105	1-126-963-11	ELECT	4.7uF	20%	50V
C106	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-126-963-11	ELECT	4.7uF	20%	50V
C202	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C203	1-216-864-11	SHORT CHIP	0		
C204	1-216-864-11	SHORT CHIP	0		
C205	1-126-963-11	ELECT	4.7uF	20%	50V
C206	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C209	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-126-963-11	ELECT	4.7uF	20%	50V
C302	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C303	1-216-864-11	SHORT CHIP	0		
C304	1-216-864-11	SHORT CHIP	0		
C305	1-126-963-11	ELECT	4.7uF	20%	50V
C306	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-126-963-11	ELECT	4.7uF	20%	50V
C402	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C403	1-216-864-11	SHORT CHIP	0		
C404	1-216-864-11	SHORT CHIP	0		
C405	1-126-963-11	ELECT	4.7uF	20%	50V
C406	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C409	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C503	1-216-864-11	SHORT CHIP	0		
C504	1-216-864-11	SHORT CHIP	0		
C505	1-126-963-11	ELECT	4.7uF	20%	50V
C509	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-126-963-11	ELECT	4.7uF	20%	50V
C602	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C604	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C605	1-126-959-11	ELECT	0.47uF	20%	50V
C606	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C609	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-126-947-11	ELECT	47uF	20%	35V
C712	1-126-933-11	ELECT	100uF	20%	16V
C713	1-126-933-11	ELECT	100uF	20%	16V
C716	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C717	1-126-934-11	ELECT	220uF	20%	16V
C718	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C719	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C720	1-126-947-11	ELECT	47uF	20%	35V
C721	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C722	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C801	1-127-888-51	CERAMIC	0.1uF	10%	50V
C802	1-126-933-11	ELECT	100uF	20%	16V
C803	1-127-888-51	CERAMIC	0.1uF	10%	50V
C804	1-127-888-51	CERAMIC	0.1uF	10%	50V
C805	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remarks
C806	1-126-934-11	ELECT	220uF	20%	16V
		< CONNECTOR >			
* CN1	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P			
		< DIODE >			
D701	8-719-077-29	DIODE SLC-22MG3F			
D703	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB101	1-216-864-11	SHORT CHIP	0		
FB102	1-216-864-11	SHORT CHIP	0		
FB111	1-216-864-11	SHORT CHIP	0		
FB112	1-216-864-11	SHORT CHIP	0		
FB113	1-216-864-11	SHORT CHIP	0		
FB114	1-216-864-11	SHORT CHIP	0		
FB115	1-216-864-11	SHORT CHIP	0		
FB116	1-216-864-11	SHORT CHIP	0		
FB117	1-216-864-11	SHORT CHIP	0		
FB118	1-216-864-11	SHORT CHIP	0		
FB119	1-216-864-11	SHORT CHIP	0		
FB201	1-216-864-11	SHORT CHIP	0		
FB202	1-216-864-11	SHORT CHIP	0		
FB301	1-216-864-11	SHORT CHIP	0		
FB401	1-216-864-11	SHORT CHIP	0		
FB501	1-216-864-11	SHORT CHIP	0		
FB601	1-216-864-11	SHORT CHIP	0		
FB701	1-216-864-11	SHORT CHIP	0		
FB702	1-216-864-11	SHORT CHIP	0		
FB703	1-216-864-11	SHORT CHIP	0		
FB704	1-216-864-11	SHORT CHIP	0		
FB801	1-216-864-11	SHORT CHIP	0		
FB802	1-216-864-11	SHORT CHIP	0		
FB803	1-216-864-11	SHORT CHIP	0		
FB804	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC1	8-759-100-96	IC uPC4558G2			
IC801	8-759-385-17	IC NJM4580E (TE2)			
IC802	8-759-100-96	IC uPC4558G2			
IC803	8-759-100-96	IC uPC4558G2			
		< JACK >			
J101	1-566-822-61	JACK (INPUT 1 (CENTER))			
J102	1-566-822-61	JACK (INPUT 1 (REAR))			
J103	1-566-822-61	JACK (INPUT 1 (FRONT))			
J104	1-566-822-61	JACK (INPUT 2)			
J701	1-815-325-11	JACK (HEADPHONE)			
		< TRANSISTOR >			
Q703	8-729-038-58	TRANSISTOR KRA107S			
Q705	8-729-920-31	TRANSISTOR DTC343TK			
Q706	8-729-920-31	TRANSISTOR DTC343TK			
		< RESISTOR >			
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R6	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R10	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R11	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R12	1-216-809-11	METAL CHIP	100	5%	1/10W
R14	1-216-833-11	METAL CHIP	10K	5%	1/10W
R101	1-216-821-11	METAL CHIP	1K	5%	1/10W
R102	1-216-841-11	METAL CHIP	47K	5%	1/10W
R104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R202	1-216-841-11	METAL CHIP	47K	5%	1/10W
R204	1-216-841-11	METAL CHIP	47K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R304	1-216-841-11	METAL CHIP	47K	5%	1/10W
R305	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R306	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-864-11	SHORT CHIP	0		
R401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R402	1-216-841-11	METAL CHIP	47K	5%	1/10W
R404	1-216-841-11	METAL CHIP	47K	5%	1/10W
R405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R406	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-841-11	METAL CHIP	47K	5%	1/10W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R506	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R507	1-216-809-11	METAL CHIP	100	5%	1/10W
R509	1-216-864-11	SHORT CHIP	0		
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-841-11	METAL CHIP	47K	5%	1/10W
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-849-11	METAL CHIP	220K	5%	1/10W
R606	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-845-11	METAL CHIP	100K	5%	1/10W
R705	1-216-864-11	SHORT CHIP	0		
R720	1-216-797-11	METAL CHIP	10	5%	1/10W
R721	1-216-797-11	METAL CHIP	10	5%	1/10W
R722	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R723	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W
R805	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R808	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description	Remarks
		< VARIABLE RESISTOR >	
RV1	1-227-640-11	RES, VAR CARBON	10K (VOLUME)
RV301	1-227-642-11	RES, VAR CARBON	10K/10K (REAR)
RV501	1-227-643-11	RES, VAR CARBON	10K (CENTER)
RV601	1-227-643-11	RES, VAR CARBON	10K (BASS)
		< SWITCH >	
S701	1-571-478-11	SWITCH, SLIDE (POWER)	
SW1	1-786-706-11	SWITCH, SLIDE (DUAL STEREO)	
**********			
	A-1104-248-A	TRANS A BOARD, COMPLETE (US, CND, C&SA)	
	A-1113-981-A	TRANS A BOARD, COMPLETE (AEP, UK, SP, KR)	
		**********	
		< CONNECTOR >	
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
* CN904	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P	
**********			
		TRANS B BOARD	
		**********	
**********			
		MISCELLANEOUS	
		**********	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)	
⚠9	1-769-079-23	CORD, POWER (KR)	
⚠9	1-777-071-23	CORD, POWER (AEP, UK, SP)	
⚠9	1-783-820-11	CORD, POWER (US, CND, C&SA)	
53	1-830-410-11	CABLE 9P	
59	1-826-096-11	SPEAKER UNIT (57mm)	
63	1-830-408-11	CABLE, MONO (for FRONT L/R-CH)	
63	1-830-408-21	CABLE, MONO (for REAR L/R and CENTER-CH)	
⚠S901	1-762-876-11	SWITCH, AC POWER (AEP, UK, SP, KR)	
⚠T901	1-443-656-11	TRANSFORMER, POWER (US, CND, C&SA)	
⚠T901	1-443-697-11	TRANSFORMER, POWER (AEP, UK, SP, KR)	
**********			
		ACCESSORIES	
		**********	
	1-830-413-11	CORD, CONNECTION 6P	
	2-593-589-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)	(US, CND, C&SA)
	2-593-589-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH)	(AEP, UK, SP)
	2-593-589-31	MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, PORTUGUESE)	(AEP)
	2-593-589-41	MANUAL, INSTRUCTION (ENGLISH, KOREAN)	(KR)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.02	New
1.1	2005.07	Addition of C&SA model. Change of printed wiring board, schematic diagram, exploded views parts list and electrical parts list. (ECA-76747)